No.



200300106

HHE UNITHED STRAILES OF ANTERICAL

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Hioneer Hi-Bred International, Inc.

THETERS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, R. CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN SUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY TION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEO.)

SOYBEAN

'94M70'

In Testimon Merreof, I have hereunto set my hand and caused the seal of the Alant Pariety Protection Office to be affixed at the City of Washington, D.C. this eighteenth day of July, in the year two thousand three.

Attest:

gemple.

Commissioner Plant Variety Protection Office Agricultural Marketing Service Secretary of

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)

NAME OF OWNER Pioneer Hi-Bred Inters	national, Inc				2. TEMPORARY DESIGNAT EXPERIMENTAL NAME	ION OR	3. VARIETY NAME 94M70
4. ADDRESS (Street and No., or R.F.D. No., 7300 N. W. 62 th Avenue P.O. Box 1004 Johnston, IA 50131	City, State, and ZIP Code, and	d Country)			5. TELEPHONE (include 515-254-2638	area code)	FOR OFFICIAL USE ONLY PVPO NUMBER A 7 A 1 A 6
					6. FAX (include area code 515-253-2478	e) L	filing date
7. IF THE OWNER NAMED IS NOT A "PERS ORGANIZATION (corporation, partnership, Corporate	ON", GIVE FORM OF association, etc.)		CORPORAT E OF INCO	TED, GIVE RPORATION	9. DATE OF INCORPORATION 1926	ON	1/28/03
10. NAME AND ADDRESS OF OWNER REDaria Schmidt, Ph. D. 7300 N.W. 62 nd Avenue P.O. Box 1004 Johnston ,IA 50131-1004	EPRESENTATIVE(S) TO SERV Sleve Callestine, Exq 7100 N.W 62 rd Avenue P.O Box 1000 Johnston, IA 50131-1000	VE IN THIS APPLIC	CATION. (F	iirst person listed will	receive all papers)		FILING AND EXAMINATION FEES: \$ 2705, DATE 1/28/03 CERTIFICATION FEE: \$ 43200 DATE 6/18/3
11. TELEPHONE (Include area code) 515-254-2638	12. FAX (Include area cod 515-253-2478	de)		MAIL midt@pioneer.com		14. CRC Soybean	P KIND (Common Name)
18. CHECK APPROPRIATE BOX FOR EACH reverse) a. X Exhibit A. Origin and Breeding		(Follow instructions	s on	CERTIFIED S		f the Plant Va	RIETY BE SOLD AS A CLASS OF riety Protection Act) X NO (if "no," go to item 22)
b.	ion of Variety tion of the Variety (Optional)				WNER SPECIFY THAT SEED LIMITED AS TO NUMBER OF CH CLASSES?	CLASSES?	YES NO
e. X Exhibit E. Statement of the B f. X Voucher Sample (2,500 viable verification that tissue culture were repository) g. X Filing and Examination Fee (States" (Mail to the Plant Variety)	e untreated seeds or, for tuber till be depositied and maintained	propagated varietie d in an approved pu	ublic	LIMITED AS T IF YES, SPEC NUMBER 1, 2		IS?	YES NO REGISTERED CERTIFIED ce indicated on the reverse.)
22. HAS THE VARIETY (INCLUDING ANY HAFROM THIS VARIETY BEEN SOLD, DISPOTHER COUNTRIES? YES IF YES, YOU MUST PROVIDE THE DATE FOR EACH COUNTRY AND THE CIRCU	OSED OF, TRANSFERRED, O X NO E OF FIRST SALE, DISPOSITI	OR USED IN THE U	J. S. OR	PROPERTY F	RIGHT (PLANT BREEDER'S RI	GHT OR PAT	NO E AND ASSIGNED
24. The owners declare that a viable sample of for a tuber propagated variety a tissue cult. The undersigned owner(s) is(are) the owner and is entitled to protection under the prov. Owner(s) is(are) informed that false representations.	ure will be deposited in 'à publ er of this sexually reproduced (isions of Section 42 of the Plar	lic repository and m or tuber propagated nt Variety Protection	naintained t d plant vari n Act.	for the duration of the ety, and believe(s) th	e certificate.		
SIGNATURE OF OWNER	nidt			SIGNATURE OF C	WNER		
NAME (Please print or type) Daria H. Schmidt		,		NAME (Please prir	nt or type)		
CAPACITY OR TITLE Director, Technology Integration and Associativ ST-470 (04-01) designed by the Plant Variety Pro		13/03	STD-470 #	CAPACITY OR TIT		tructions and	DATE information collection burden statement)

INSTRUCTIONS

"GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

200300106

ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or spensor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

ST-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces ST-470 (02-99) which is obsolete.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 94M70

Variety 94M70 evolved from a cross made in the winter of 1996 in Puerto Rico with the following parentage:

Parentage: 93B82/90765T003

90765T003 = A4715/90686

90686 = 9392/G40-3P9392

*G40-3P9392 is an experimental line with the Roundup Ready (40-3-2) gene

Variety 94M70 is an F2-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 94M70 was grown in a plant row increases in the winter of 1997 in Puerto Rico. Subsequently, 94M70 has undergone five years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, resistance to soybean cyst nematode, resistance to Phytophthora, and resistance to Roundup branded herbicides, variety 94M70 was assigned a commercial number.

The purification block was grown in 2000 Illinois in 72 subline rows, of which 12 were harvested. A quarter acre increase was grown in Argentina in 2000/2001. Twenty (20) acres of parent seed stock were grown in 2001. Six hundred ten (610) acres of parent and production seed were grown in the summer of 2002.

Exhibit B. Statement of Distinctness

200300106

Soybean Variety 94M70

Variety 94M70 is most similar to 94B74. Both varieties have light tawny pubescence, yellow seed with black hila, resistance to Race 3 of soybean cyst nematode, multi-race resistance to *Phytophthora megasperma* as governed by the Rps1k gene, and resistance to Roundup branded herbicides. However, 94M70 has white flowers whereas 94B74 has purple flowers.

Variety 94M70 is also similar to 94B73. Both varieties have light tawny pubescence, yellow seed with black hila, multi-race resistance to *Phytophthora megasperma* as governed by the Rps1k gene, and resistance to Roundup branded herbicides. However, 94M70 has white flowers and resistance to Race 3 of soybean cyst nematode whereas 94B73 has purple flowers and is susceptible to Race 3 of soybean cyst nematode.

Variety 94M70 is also similar to AG4702 from Asgrow (Monsanto). Both varieties have white flowers, yellow seed with black hila, resistance to Race 3 of soybean cyst nematode, and resistance to Roundup branded herbicides. However, 94M70 has light tawny pubescence and multi-race resistance to *Phytophthora megasperma* as governed by the Rps1k gene whereas AG4702 has tawny pubescence and does not have a resistance gene at the Rps1 locus.

REPRODUCE LOCALLY. Include form number and date on all reproductions.

Form Approved - OMB No. 0581-0055

the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. B control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for tructions, searching existing data ources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

artment of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual nd marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, c.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

plaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326 W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 DD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY
SOVBEAN (Glycine max (L.) Merr.)

NAME OF APPLICANT(S)		SO I BEAIT (Giye	ine max (L.) Merr.)	FOR OFFICIAL USE ONLY
Pioneer Hi-Bred, International	·			PSPO NUMBER
ADDRESS (Street and No. or R.F.D. No., City,	State, and Zip Cod			200300106
7200 62nd Avenue P.O Box 1004 Johnston, IA 50131-1004				VARIETY NAME 94M70
				TEMPORARY OR EXPERIMENTAL DESIGNATION
	·			
PLEASE READ ALL INSTRUCTION	ONS CAREFULLY: Place	the appropriate nu	nber that describes the v	arietal character of this variety in the boxes below.
Place a zero in the first box (e.g. quantitative	9 9 9	or 0 9)	when number is either	99 or less or 9 or less respectively. Data for
plant characters chould be based on	a minimum of 100 plants	. Comparative data	should be determined fro	om varieties entered in the same trial. Royal
Horticulutral Society or any recogn				•
Please answer all questions for your	-			
			T. T	
A. MORPHOLOGY				
Seed Shape		2	•	
$ \begin{array}{c} 1 = \text{Spherical} \\ \text{(L/W, L/T, and} \end{array} $	T/W ratios < 1.2)	-	nerical - Flattened atio > 1.2; L/T ratio	<1.2)
3 = Elongated (L/T ratio . 1.2;	T/W ratio < 1.2)		ngate - Flattened itio > 1.2;T/W ratio	> 1.2)
Seed Coat Color:				
1 = Yello	w 2 = Green	3 = Brown	4 = Black	5 = Other
Seed Coat Luster:				(Please Specify
2 1 = Dull	2 = Shiny			
Seed Size:				
14.6 grams/100) seeds			
Hilum Color:	•			
6 1 = Buff	2 = Yellow	3 = Brown	4 = Gray	5 = Imperfect Black
6 = Black	7 = Other (P)	lease Specify)		

A. MORPHOLOGY (Continued)

Cotyledon Color:

1

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

2

1 = Low

2 = High

Hypocotyl Color:

1

1 = Green ('Evans' or 'Davis') 2 = Green with Bronze Bands below Cotyledons ('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons ('Beeson' or 'Pickett 71') 4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or

200300106

Leaflet Shape:

3

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please Specify)

Flower Color:

1

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

2

1 = Tan

2 = Brown

3 =Black

Pubescence Color:

3

1 = Grav

2 = Brown (Tawny)

3 =Light Tawny

Plant Habit:

3

1 = Determinate

2 = Semi - Determinate

3 =Indeterminate

4 =Intermdeiate

Maturity Group:

07

1 = 000

2 = 00

3 = 0

4 = I

5 = II

 $6 = \mathbf{m}$

7 = IV

8 = V

9 = VI

10 = VII

11 = VIII

12 = IX

13 = X

14 = XI

15 = XII

Maturity Subgroup:

7

Please enter a value from 0 - 9

B. DISEASE REACTION

0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

Bacterial

0

Bacterial Pustule (Xanthomonas campestri pv. glycines (Nakano) Dye)

1

Bacterial Blight Pseudomonas syringa pv. glycinea (Coerper) Young, Dye, and Wilkie)

0

Wildfire Blight Pseudomonas syringa pv. tabaci (Wolf Foster) Young, Dye, Wilkie)

	* . *											٠.
Funga	1			:			-					
1	Brown Spot (Septor	ia glycinesHemmi)					• •	2 (03	001	n a
	Frogeye Leaf	Spot (Cercospora sojina	Hara)						# . P . U	# 174 B
1	race 1		0 race 2			0	rac	ce 3		0	race 4	
0	race 5		0 race 6				O1	the (Please	Specify)			
0	Target Spot (C	Coryne	spora cassiicola (E	Berk(Curt.) Wei)							÷
0	Downey Milder	w (Pero	onospora trifolioru	ım var.	. manchuric	(Naun	n.) Syd	l. ex Gäum)				
0	Powdery Milde	ew (Mic	crosphaera diffusa	Cke.	and Pk.)							
0	Brown Stem Ro	ot <i>(Ph</i>	ialophora gregata	(Allin	igton _Cham	berlain) W. C	Gams.)				
0	Stem Canker (Diapo	rthe phaseolorum	(Cke.	and Ell.) Sa	cc. var	cauliv	ora Athow a	and Caldwo	ell		
1	Pod and Stem E	Blight	(Diaporthe phase	olorun	ı (Cke. and	Ell.) Sa	cc. va	r <i>sojae</i> (Leh	man) Weh	m :		: :
0	Purple Seed Sta	in (Cercospora kikucl	hii (T.	Matsu. and	Tomoy	/asu) (Gardener)	· · · · · · · · · · · · · · · · · · ·			
1	Rhizoctonia Ro	ot Rot	(Rhizoctonia sol	ani K	ühn)		÷.					
Phytop	hthora Root Rot	(Phyto _j	phthora megasperi	ma D	rechs. f. sp	glycine	ea (Ku	ıan Erwin))				
0	race 1	0	race 8	0	race 15	,	0	race 22				
0	race 2	0	race 9	0	race 16		0	race 23				
2	race 3	0	race 10	0	race 17		0	race 24	+ 4.			
2	race 4	0	race 11	0	race 18		1	race 25				
0	race 5	0	race 12	0	race 19		0	race 26		•		
0	race 6	0	race 13	0	race20			Other (P	lease Speci	fy)		
2	race 7	0	race 14	0	race 21			l				
1	Bud Blight (Tob	acco F	lingspot Virus)		· · · · · · · · · · · · · · · · · · ·							
1	Yellow Mosaic (bean Y	Yellow Mosaic Vir	us)								

0 = Not Tested

1 = Susceptibl

2 = Resistant

3 = Tolerant

B. DISEASE REACTION (Continued)

B. DISE	ASE REACT	IONS	(Continu	ued) $0 = No$	t Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
Fungal		٠							
1	Cowpea Mosa	ic (Cov	vpea Chlorot	ic Virus)					
1	Pod Mottle (B	ean Po	d Mottle Vir	us)			2	003001	06
1	Seed Mottle (S	Soybear	n Mosaic Vir	us)					
Nemato	ode								
Soybean	n Cyst Nematod	e <i>(He</i> i	erodera glyci	nes Ichinohe	e) ·				
1	race 1	0	race 4	0	race 9				
0	race 2	0	race 5	0	race 14				
2	race 3	0	race 6		Other	(Please Specify)			* .
0	Lance Nemato	de <i>(H</i>	oploaimus co	olumbus Shei	·)	· .			
1	Southern Root	t Knot	Nematode (Meloidogyne	incognita	(Kofoid and Wh	uite) Chitwo		
0	Northern Root	t Knot	Nematode (1	Meloidogyne	<i>hapla</i> Ch	itwood)			· · · .
0	Peanut Root K	Cnot Ne	matode <i>(Mel</i>	loidogyne are	naria (Ne	al) Chitwood)			
0	Reniform Nem	atode	(Rotylenchus	s reniformu	Linwood a	and Olivera)			
0	Javanese Nema	atode	(Meloidogyne	e javanica (T	reub) Chi	twood)			
	Other Nemato	de <i>(P</i>	lease Specify))					
с. РНҮ	SIOLOGICA	L RE	SPONSES	0 = Not	Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
0	Iron Chlorosis	on Ca	careous Soil					 1	
0	Phosphorus				Ot	her <i>(Please Spec</i>	rify)		
0	Boron								
0	Aluminu	6 60							
0	Salt	•							
0	Drought							• .	

D. INSECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
Fungal O Movicery Reen Reetle (Fig. 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					
Mexican Bean Beetle (Epilachna va	rivestis Mulsant)				,
O Potato Leaf Hopper (Empoasca fab.	ae (Harris))		2	00300	10
Other (Please Specify)					
E. HERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant		
0 Metribuzin					
0 Bentazone					
1 Sulfonylurea					
2 Glyphosate					:
0 Glufosinate					
0 Pendimethalin					
Other (Please Specify)					
F. TRANSGENIC COMPOSITION		:			
Has the development of the subject variety inclu or, the removal of genetic material from the app		genetic material fi	om an organism o	other than a soyb	ean,
If yes, please complete the following infomation					
1. Please state the vector's name:					
2. Please state the vector components:					
3. Please describe the genetic material successfu	Hy transformed into	the ambient veniets			
	ny transferred into	the subject variety	•		
4. Please describe the insertion protocol: * A literature citation(s) explaining the four.				- 4* A	
* A literature citation(s) explaining the four the "Transgenic Composition" portion of this fo details of the vector components and insert elem al. Development, Identification, and Characterical.	rm. This section is ents are summarized	fully addressed in I in Figure 1 and T	the following pub able 1 on page 14	lication. Specific 53. Padgette, S.J	R. et
G. BIOCHEMICAL MARKERS			C	- 4b - aublaatur	loter.
Please describe any biochemical information her (e.g. Simple Sequences Repeats, Restriction Frag					

' H. COMMENTS

200300106

Exhibit D. Additional Description of the Variety

200300106

Soybean Variety 94M70

In Exhibit C we have identified variety 94M70 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 94M70 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 94M70 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 94M70 is a late Group 4 variety. If Group 4 varieties are divided into tenths, the relative maturity of 94M70 is 4.7.

	The #-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	accordance with the Privacy Act of
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in 1974 (5 U.S.C. 552a) and the Paper F	
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to detect certificate is to be issued (7 U.S.C. 24 confidential until the certificate is issued.	(21). The information is held
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc	OR EXPERIMENTAL NUMBER	94M70
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (include area code)
7300 N.W. 62 nd Avenue P.O. Box 1004	515-254-2638	515-253-2478
Johnston, IA 50131-1004		
	7. PVPO NUMBER 200	300106
8. Does the applicant own all rights to the variety? Mark an "X" in t If no, please explain.	the appropriate block.	X YES NO
ii iio, pieuse explain.		X YES NO
Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	X YES NO
10. Is the applicant the original owner?	If no, please answer one of the foll	owing:
	NO	
		?(a)le
a. If the original rights to variety were owned by individual(s), is	s (are) the original owner(s) a U.S. Nationa	al(s)?
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun	s (are) the original owner(s) a U.S. Nationa	
a. If the original rights to variety were owned by individual(s), is	s (are) the original owner(s) a U.S. Nationa	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun	s (are) the original owner(s) a U.S. National try s), is (are) the original owner(s) a U.S. bas try	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies	s (are) the original owner(s) a U.S. National try s), is (are) the original owner(s) a U.S. bas try	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun	s (are) the original owner(s) a U.S. National try s), is (are) the original owner(s) a U.S. bas try	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun	s (are) the original owner(s) a U.S. National try s), is (are) the original owner(s) a U.S. bas try	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun	s (are) the original owner(s) a U.S. National try s), is (are) the original owner(s) a U.S. bas try	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun	s (are) the original owner(s) a U.S. National try s), is (are) the original owner(s) a U.S. bas try	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun	s (are) the original owner(s) a U.S. National try s), is (are) the original owner(s) a U.S. bas try	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun 11. Additional explanation on ownership (If needed, use the reverse	s (are) the original owner(s) a U.S. National try s), is (are) the original owner(s) a U.S. bas try	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun 11. Additional explanation on ownership (If needed, use the reverse	s (are) the original owner(s) a U.S. National otry s), is (are) the original owner(s) a U.S. bas try e for extra space):	
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of count b. If the original rights to variety were owned by a company(ies YES NO If no, give name of count 11. Additional explanation on ownership (If needed, use the reverse Please Note: Please Note:	s (are) the original owner(s) a U.S. National otry s), is (are) the original owner(s) a U.S. base try e for extra space):	sed company?
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of coun b. If the original rights to variety were owned by a company(ies YES NO If no, give name of coun 11. Additional explanation on ownership (If needed, use the reverse	itry s), is (are) the original owner(s) a U.S. National of the original owner(s) a U.S. base of the original owner(s) a U.S. particular owner(s) a U.S. national original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) and use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) and use of the original owner(s) a U.S. national or use of the original owner(s) and use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s) a U.S. national or use of the original owner(s)	sed company?
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of count b. If the original rights to variety were owned by a company(ies YES NO If no, give name of count 11. Additional explanation on ownership (If needed, use the reverse Plant variety protection can only be afforded to the owners (not licer 1. If the rights to the variety are owned by the original breeder, that	itry s), is (are) the original owner(s) a U.S. National owner(s) a U.S. base itry e for extra space): nsees) who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and species oved the original breeder(s), the company	of a UPOV member country, or es.
a. If the original rights to variety were owned by individual(s), is YES NO If no, give name of count b. If the original rights to variety were owned by a company(ies YES NO If no, give name of count 11. Additional explanation on ownership (If needed, use the reverse Plant variety protection can only be afforded to the owners (not licer 1. If the rights to the variety are owned by the original breeder, that national of a country which affords similar protection to nationals 2. If the rights to the variety are owned by the company which employed in ationals of a UPOV member country, or owned by nationals of a	itry s), is (are) the original owner(s) a U.S. National owner(s) a U.S. base of the original owner(s) a U.S. base of the original owner(s) a U.S. base of the extra space): nsees) who meet the following criteria: person must be a U.S. national, national of the U.S. for the same genus and species over the original breeder(s), the company of country which affords similar protection to	of a UPOV member country, or es. must be U.S. based, owned by o nationals of the U.S. for the same

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

ST-470-E (04-99) (Destroy previous editions).